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	process with	n regard to e electromag . Galitskiy	ystem. Formul strong interac netic structur for consultati	tions, since	this process	s may be use uthors are v	d for ery grate-	
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47364-65 EWI(m)/ CESSION NR: AP50	/EWA (m)=2 008755	8/0056/65/048/003/0946/0951	
THOR: Bayer. V. I	V.; Khoze, V. A.	(3	1
TLE: Photon emis	sion during muon pair produc	tion by electron-positron collision	1 33.
URCE: Zhurnal eka 6-951	sperimental noy i teoretiche	eskoy fiziki, v. 48, no. 3, 1965,	
PIC TAGS: photon lliding beam expen	emission, muon pair productiment, differential cross	tion, electron positron collision, section, total cross section	
on pair by electron pair by electron expected to be the thod is proposed to the process, integrate the separate, gauge, and character of calculation of	on-positron collision (e ⁺ + important in the near future for calculating in a simple cated over the final muon state parts of the diagrams by go invariants. It is then the differential cross section.	f a photon in the production of a $e^- \rightarrow \mu^+ + \mu^- + \gamma$). Such processes in colliding beam experiments. A manner the total cross section of tates. The idea of the method is to using the properties of relativisumnecessary to make the very cumber tion, since the traces of the elecated directly. This is a universal	
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L 47364-65 ACCESSION NR: method and can be used for the calculation of the cross section for various processes of the same type. The exact formula is then derived for the total cross section of emission of a photon in the production of a muon pair. The formula is then analyzed and the behavior of the cross section determined for two limiting cases, near and far from the threshold. The difference between the behavior of the obtained formulas and those for bremsstrahlung in electron scattering is pointed out. "The authors thank V. M. Galitskiy for a discussion." Orig. art. has: 1 figure and 45 formulas. ASSOCIATION: Kovosibirskiy gosudarstvennyy universitet (Kovosibirsk State University SUBMITTED: 060ct64 SUB CODE: ENCL: .00 NR REF SOV: OTHER: 003 1756.055

L 60322-65 EWT(m)/EWA(m)-2 Peb UR/0056/65/048/006/1708/1716 ACCESSION NR: AP5016564 AUTHOR: Bayer, V. N.; Khoze, V. A. TITLE: Radiation in two-particle electron-positron annihilation SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 48, no. 6, 1965, 1708-1716 TOPIC TAGS: electron positron annihilation, photon emission, emission cross section, integral cross section, form factor ABSTRACT: The authors use a procedure proposed in an earlier paper (ZhETF v. 48, 946, 1965) to calculate the cross sections for the emission of a photon in several annihilation processes. The first process investigated is the formation of a pair of scalar particles upon annihilation of an electron-positron pair. To take into account the influence of strong interactions, form factors of the final particles are introduced and it is shown that by making use of relativistic, gauge, and charge invariance properties, it is possible, by summing over the spins of the final particles, to write down a universal formula for the integral cross section of the emission by the initial particles. To take account of the influence of strong interaction on the emission by the final particles, the contributions of Compton-type diagrams are taken into account. This is done by expanding the am-Card 1/2

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plitude of the photon emiss universal formula is writte (Phys. Rev. v. 110, 974, 19 produced upon creation of a shown that in all the cross "The authors thank V. N. Go 2 figures and 58 formulas.	n out for the 158) is used to pair of pions is sections in q	first term calculate is calcul question th	and the method of the second term. ated as an example in interference terms	F. Low The emissio It is n vanishes.	n
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ACC NR: AP6020217 SOURCE CODE: UR/0056/66/050/006/1611/1616

AUTHOR: Bayer, V. N.; Fadin, V. S.; Khoze, V. A.

ORG: Novosibirsk State University (Novosibirskiy gosudarstvenny universitet)

TITLE: Emission of two photons in a specified angle during electron collisions

SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1611-1616

TOPIC TAGS: photon emission, electron collision, radiation detector, scattering cross section

ABSTRACT: This is a continuation of earlier work by one of the authors (Bayer, with V. M. Galitskiy, ZhETF Pis ma v. 2, 259, 1965 and earlier) dealing with the emission of two photons of arbitrary energy as a result of electron collisions. In view of the great interest that attaches to this process in connection with colliding-beam experiments, and in view of the fact that earlier calculations were based on the assumption that the angular dimensions of the photon detectors greatly exceed the characteristic emission angle, the authors calculate in this article the cross section for the emission of two photons into a specified angle, which is shown to be only a fraction of the cross section of the radiation integrated over all the angles. The final expression, obtained by a combination of analytic and computer techniques, is in the form of a polynomial in the powers of the frequencies of the two photons. The numerical values of the coefficients of the powers of the frequencies are obtained in the case when the detector dimensions are of the order of magnitude of the characteristic

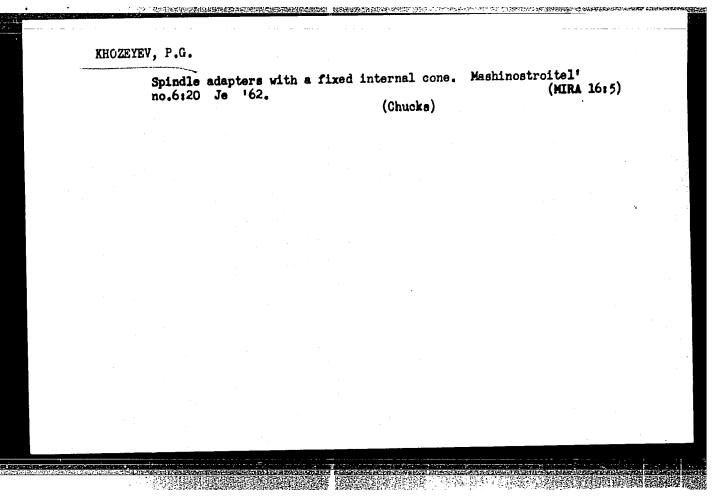
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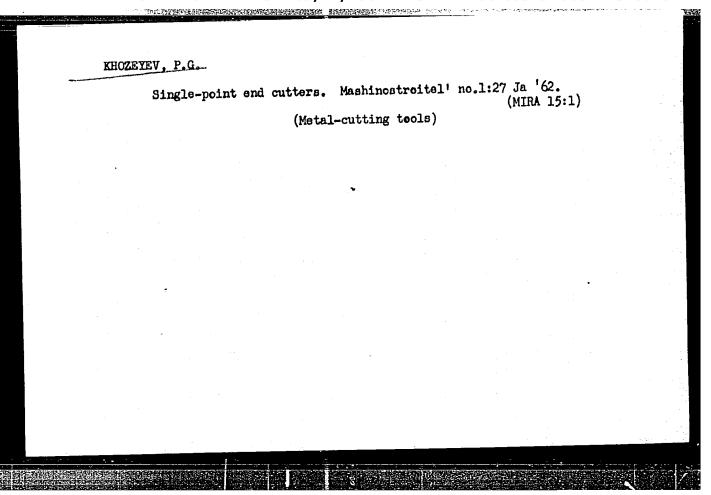
etector dimension his analytic expr hank A. P. Onuch	n analytic expressions are much larger to ession agree well win for a discussion and E. Z. Borovskays	than the chara with the numer n of questions n for help wit	cteristical cal connect the the m	culations. ed with the	The av	en the lts of thors ment,	3
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[For the welfare of everybody]Na blago vsokh. Moskva, Izd-vo "Znanie," 1962. 45 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.18)

(Stock and stockbrooding)

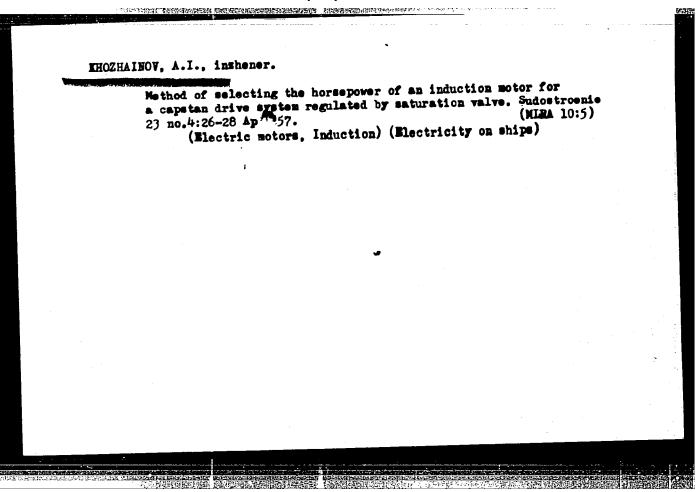
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ZUYKOV, P.E., inshener; KHOZHAIMOV, A.I., inshener.

Using saturation throttles in marine electric drives. Sudostroenie
23 no.2:36-40 P '57. (Ship propulsion, Electric)
(Electricity on ships)



·8(5) SOV/105-58-11-4/28

AUTHORS: Zuykov, F. N., Khozhainov, A. I. (Leningrad)

TITLE: Construction of Circle Diagrams for an Induction Motor With

Biased Reactor Coil (Postroyeniye geometricheskikh mest asinkhronnogo dvigatelya s drosselyami nasyshcheniya)

PERIODICAL: Elektrichestvo, 1958, Nr 11, pp 14-18 (USSR)

ABSTRACT: This is an investigation of the circle diagram of an induc-

tion motor with biased reactors in the stator circuit under the condition that voltage and current maintain their sinusoidal

shape under all operational conditions. Notwithstanding the circumstance that a precise equivalent circuit diagram is used as a basis of the construction of the circle diagram, it proves to be more expedient to neglect the ohmic resistance of the choke as this does not falsify the results. It is also expedient to add the inductive resistance of the choke x_{Ch} i

to the inductive resistance of the main stator circuit. Equation (1) is then written down holding for the entire equivalent resistance of the main stator circuit. The procedure

Card 1/3 of constructing the circle diagram is presented. Generally

SOV/105-58-11-4/28

Construction of Circle Diagrams for an Induction Motor With Biased Reactor Coil

the inductive resistance of the choke varies pronouncedly with the slip at a constant bias magnetization. A graphic method of analysis is presented for the determination of the variation of x_{Ch} i with the slip s at different values of $I_n = const.$ (In denoting the bias magnetization current). The diagram obtained by this way shows that x ch i is independent of s practically only at a very high bias magnetization. In other cases the non-linearity of the choke must be taken into account. The influence of this non-linearity of the choke coil is illustrated by two circuits which correspond to x ch i max and x_{Ch} i min, at I_n = const. The circle diagram of the induction motor at different values of x ch is presented. The vector OA represents the stator current I_1 . The parameters characterizing the operation of the induction motor at x_{Ch} = const. are determined from the current circle by the usual methods (Ref 1). The functions describing $I_1 = \varphi(s)$ at different values of $I_n = \varphi(s)$ constant which were obtained either by calculation or experimen-

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Construction of Circle Diagrams for an Induction Motor With Biased Reactor

Coil

tally are compared in a pertaining diagram. It demonstrates that both sets of values show a good agreement. This is also

true of the efficiency of the motor as obtained from the circle diagram and by experiment. There are 6 figures and 1 Soviet

reference.

SUBMITTED: June 11, 1958

Card 3/3

KHOZHAINOV, A.

The section of the second of t

A.c. capstan electric drive with a broad range of speed control.

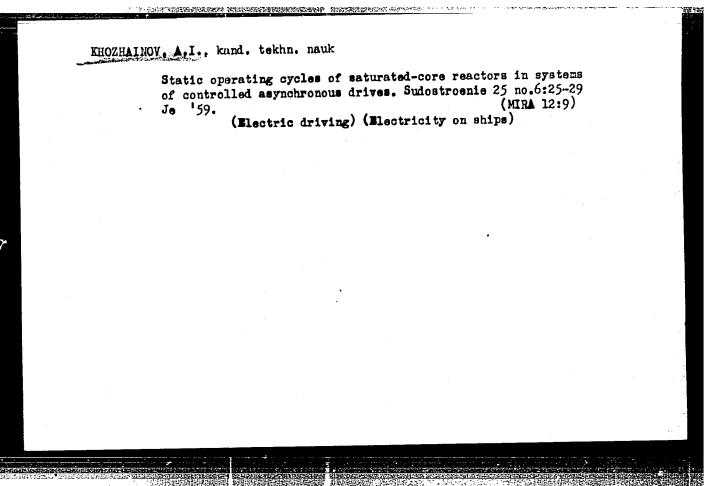
Mor. flot 18 no.11:13-15 N '58. (MIRA 11:12)

l. Machal'nik laboratorii Vysshego voyenno-morskogo inzhenernogo uchilishcha.
(Capetan) (Electric driving)

Method of designing capstan saturation chokes according to electric motor catalog data and the curve of simultaneous magnetisation.

Sudostroenie 24 no.3:39-42 Mr '58. (MIRA 11:4)

(Electricity on ships) (Electric driving)



S/1144/60/000/02/007/019

E194/E155

AUTHOR: Khozhainov, A.I., Candidate of Technical Sciences, Head

of the Laboratory

Construction of the Current Loci of Induction Motors with TITLE:

Non-Linear Inductance in the Stator Circuit

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Elektromekhanika, 1960, Nr 2, pp 61-69

ABSTRACT: In the control of induction motors use is frequently made of saturating chokes, auto-transformers and other devices whose reactance is a non-linear function of the motor slip. This influences the operation of the motors and methods of constructing the relevant current loci are required. The present article considers only the most general case of an induction motor with a saturating choke in the stator circuit. It is assumed that the machine winding parameters are constant and that the currents and voltages are sinusoidal. The equivalent circuit of such an induction motor is given in Fig 1. The fundamental equations of the equivalent circuit are

then formulated. In the equivalent circuit the Card 1/4

magnetising circuit component is brought out to the

S/144/60/000/02/007/019 E194/E155

Construction of the Current Loci of Induction Motors with Non-Linear Inductance in the Stator Circuit

supply terminals to facilitate inversion of the functions. Expression (5) is derived for the total equivalent impedance of the main circuit. The influence of the ohmic resistance of the choke on its impedance is negligible and so expression (5) can be simplified to the form of expression (6). Then, once the inductance of the saturating choke is known as a function of slip, the current loci of the induction motor with saturating choke in the stator circuit can, in general, be constructed by combining a number of current circle diagrams into a This method gives accurate results but single diagram. is inconvenient in calculations. It is much easier to obtain the current loci by using the principle of Determination of the inverting parametric curves. inductance of the saturated choke as a function of slip is then considered, using the equivalent circuit of Fig 2, and is found to be an ellipse described by expression (7) in which the major and minor semi-axes are given by expressions (8) and (9). An ellipse may be

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Construction of the Current Loci of Induction Motors with Non-Linear Inductance in the Stator Circuit

constructed for the various values of slip. A family of ellipses may be plotted on the curve of simultaneous magnetisation of the steel by a.c. and d.c., as in Fig 3. The points of intersection between the ellipses and the magnetisation curves give all the possible operating conditions of the saturating choke. The main case considered is that in which the control circuit is open, so that the main current is constant and the slip is variable. The operating conditions of the saturating choke are then found in the way just described. Fig 4 shows calculated curves of the reactance of the saturating choke as a function of slip for various values of constant main current. The curves relate to a motor type MAP-21-4. It will be seen that it is only when the choke is highly pre-magnetised by d.c. that the reactance is practically independent of the slip and the current diagram is a circle. In other cases, the choke cannot be treated as linear. The method of constructing the loci of an induction motor with non-linear inductance in the stator circuit is then described with reference to the

Card 3/4

5/144/60/000/02/007/019 E194/E155

Construction of the Current Loci of Induction Motors with Non-Linear Inductance in the Stator Circuit

> diagram of Fig 5. An explanation is given of the use of the diagram to obtain currents, torques, power factor and so on. Figs 6 and 7 give current diagram constructions for an induction motor type MAP-21-4, with saturating choke in the stator circuit and main circuit currents of 0.67 amps and 2 amps respectively. Figs 8 and 9 show calculated (1) and experimental (2) curves of primary current and torque as a function of slip, the calculated curves being obtained from the diagrams given in Figs 6 and 7. It will be seen that agreement between theory and experiment is satisfactory.

Card 4/4

There are 9 figures and 2 Soviet references.

ASSOCIATION: Laboratorii korabel'nykh elektroprivodov Vysshego Voyenno-morskogo inzhenernogo uchilishcha (Laboratory of Marine Electric Drives, Higher Naval Engineering College)

SUBMITTED: August 8, 1959

KHOZHAINOV, Anatoliy Ivanovich, kand.tekhn.nauk

Use of volt-ampere characteristics of a choke in constructing geometric current plots of asynchronous motors with saturable reactors. Isv. vys. ucheb. sav; elektromekh. 3 no.8:63-68 60. (MIRA 13:9)

l. Nachal'nik labratorii korabel'nykh elektroprivodov Vysshego Voyenno-morskogo inzhenernogo uchilishcha. (Electric motors, Induction)

S/057/62/032/001/002/018 B104/B138

AUTHORS:

Ryabinin, A. G., and Khozhainov, A. I.

TITLE:

Steady laminar flow of electrically conductive liquids in a rectangular pipe under the action of ponderomotive forces

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 32, no. 1, 1962, 15-21

TEXT: The Mavier-Stockes equation and the principal electrodynamic equations for a conductive liquid flowing through a rectangular pipe (Fig. 1) and are reduced to the form $-\frac{c}{\eta} B_0^2 v_z + \sigma E_0 B_0 / \eta - \partial p / \eta \partial z = 0. \text{ On the strength of}$

experimental results, the electric and magnetic fields are assumed to be uniform for $\vec{v}=0$ at $b/a\lesssim 1$. The above equation can be written as $\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} - \frac{\partial^2 v}{\partial y^2} + P = 0$ (v = v_z), where $k^2 = 4M^2/b^2$, M is the Hartmann number, and $P = \sigma E_0 B_0 / m - dp / m dz$. The solution to this equation

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Steady laminar flow of ...

where

$$M_{An}^2 = [(2n-1)^2 \gamma^2 + M^2]; \ \gamma^2 = \frac{\pi^2 b^2}{4a^2}.$$
 (A).

This solution can also be generalized for the case of electromagnetic-waves traveling along the pipe axis. It is proved to be unique. The formulas

$$v_{\text{op.}} = \frac{2b^{3}P}{\pi^{3}} \sum_{n=1}^{\infty} \frac{1}{(2n-1)^{2}M_{*n}^{3}} \left(1 - \frac{\text{th } M_{\text{on}}}{M_{\text{on}}}\right),$$

$$\Delta p = \frac{8\eta lP}{\pi^{3}} \left\{ \sum_{n=1}^{\infty} \frac{\text{th } M_{\text{on}}}{(2n-1)^{2}M_{\text{on}}} - \gamma^{2} \sum_{n=1}^{\infty} \left[\frac{\text{th } M_{\text{on}}}{M_{*n}^{3}} - \frac{1}{M_{*n}^{2}} \right] \right\}.$$
(17)-(18)

are obtained for the mean flow velocity and the pressure loss due to friction over the length, 1, of the channel. Experimental verification Card 2/3

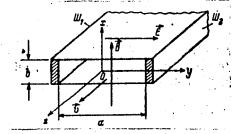
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Steady laminar flow of ...

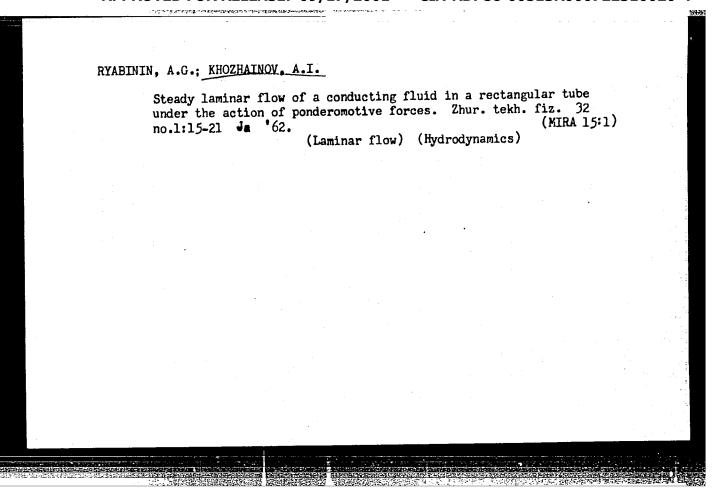
with an electromagnetic pump furnished satisfactory results. A saturated NaCl solution was used as the conducting liquid. Experimental results of I. Hartmann et al. (Hg-Dynamics, Danske Videnskab. Selskab. Mat.-fyè. Medd., 15, no. 7, 1937) were confirmed for laminar flows using a modified formula for the pressure loss. There are 5 figures and 10 references: 7 Soviet and 3 non-Soviet. The reference to the English-language publication reads as follows: I. A. Shercliff. Proc. of the Cambr. Phil. Soc., 49, 1, 136, 1953.

SUBMITTED: March 27, 1961

Fig. 1. Rectangular pipe.



Card 3/3



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s/057/63/033/001/010/017 B125/B186 .

AUTHORS:

and Khozhainov, A. I.

TITLE:

The turbulent flow of an electrically conducting liquid in tubes of rectangular cross section under the action of electrodynamic ponderomotive forces

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 1, 1963, 80 - 89

TEXT: The stability of the turbulent flow of an electrically conducting liquid in a tube of rectangular cross section with arbitrary ratio of the sides a and b, and the loss through frictional resistance, are investigated for a wide range of the numbers M and Re. . The parameters of the magnetohydrodynamic current are represented as sums of an average value constant in time and pulsation. After a transformation of the dimensionless hydrodynamic equations one obtains the projections of these equations on the axis of a rectangular tube. Two walls of this tube are nonconducting poles of a magnet. On the other two walls (good conductors) is applied a given potential difference. According to an analysis of these projections the turbulent magnetohydrodynamic currents of an electrically conducting liquid Card 1/3

S/057/63/033/001/010/017 B125/B186

The turbulent flow of ...

are characterized by the three dimensionless parameters Re, M and Rm. The structure of this current under the action of electrodynamic ponderomotive forces can be represented as a sum of a linear term for the principal components of the current parameters and a term for the effect of the pulsation. This holds also for the total dimensionless friction coefficients of the turbulent magnetohydrodynamic current: $\lambda_{tot}^m = \lambda_{tot}^m + \lambda_{t.p.}^m$. For M \rightarrow 0, $\lambda_{tot}^m = \lambda_{t.p.}^0 + \lambda_{t.p.}^0$. Also $\lambda_{tot}^m = k(\gamma, M)/Re$. For M \rightarrow 1 and $\lambda_{t.p.}^m$. For M \rightarrow 0, $\lambda_{tot}^m = \lambda_{t.p.}^0 + \lambda_{t.p.}^0$. Also $\lambda_{t.p.}^m = \lambda_{t.p.}^0 + \lambda_{t.p.$

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The turbulent flow of ...

The stability condition $Re_{crit}^{m} = 226M$ for $M\gg 1$ and $\chi\sim 0$ deviates less than 1% from the experimental relation of W. Murgatroyd (Phil. Mag., 44, 1348, 1953). The generalized total friction coefficient

$$\lambda_{r}^{M} = \frac{k (\gamma, M)}{Re} + \delta \left(Re - Re_{np}^{0} \right) \left[\frac{0.133}{Re^{0.25}} - \frac{A (\gamma)}{1 + \frac{A (\gamma)}{k (\gamma)} \left(Re - Re_{np}^{0} \right)} \right] \times$$

$$\times \left[1 - \frac{M^2}{Re} \cdot \frac{1 + a(Re) \frac{M^2}{Re}}{\delta_0(Re) + \delta_1(Re) \frac{M^2}{Re} + a(Re) \left(\frac{M^2}{Re}\right)^2}\right]$$

dynamic current asymptotically approaches the law of Blasius from below for small M and from above for large M. There are 4 figures and 2 tables.

SUBMITTED: October 5, 1961(initially)
March 12, 1962 (after revision)

Card 3/3

KHOZHAINOV, Anatoliy Ivanovich, kand. tekhm. nauk; ZUYKOV, Fedor Nikolayevich, kand. tekhm. nauk

THE STREET STREET, STR

Determination of the permissible number of starts of asynchronous motors with saturable reactors within one hours' time. Izv. vys. ucheb. zav.; elektromekh. 7 no.9:1088-1095 '64 (MIRA 18:1)

21:75-66 EMT(1)/EMP(n)/EPA(sp)-2/EPA(w)-2/	UR/0057/65/035/009/1568/1576
CCESSION NR: AP5024031	58
UTHOR: Khozhainov, A. I. 44,55	
ITLE: Experimental investigation of the in hannel of square cross section with the lon ransverse magnetic field taken into account	
OURCE: Zhurnal tekhnicheskoy fiziki, v. 35	5, no. 9, 1965, 1568-1576
ropic TAGS: magnetohydrodynamics, turbulent magnetic field, homogeneous magnetic field, agentic field, agentic field, agentic. The author has investigated the section, I m long plastic-walled channel in pole pieces of a current-regulated electrom transition effects in the fringe field as tregion to the region of essentially uniform Reynolds numbers from 2100 to 10,000 and at	flow of mercury in an 8 x 8 mm cross the 3.5 cm gap between the 29.2 x 10 cm tagnet, giving particular attention to the fluid passes from the field free a field. The flow was investigated at
Reynolds numbers from 2100 to 10,000 and at flow rate was measured with a Venturi tube the pressure was measured at nine points al the velocity profile in the channel was obt	Toformation concerning
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ACCESSION NR: AP5024031

ence between two 0.6 mm diameter amalgamated copper electrodes located diametrically opposite each other in the channel wall. Sixteen pairs of such electrodes were provided. There is a rather long theoretical discussion of such potential difference measurements, from which it is concluded that they can provide useful velocity profile information. The experimental data are presented as plots of the ratio profile information. The experimental data are presented as plots of the ratio is the potential difference between the two electrodes of a pair, B is the magnetic induction, and the subscript o refers to a position near the center of the channel induction, and the subscript or refers to a position near the center of the channel where the magnetic field is uniform. The quantity F varied by some 1 to 7% in where the magnetic field is uniform. The quantity F varied by some 1 to 7% in passing from the field free region to the center of the channel, depending on the flow conditions. The length L of the transition region was found to be given by $L^2 = a^2 R/M^2$, where a is the width (and depth) of the channel, R is the Reynolds number, and M is the Hartmann number. Orig. art. has: 18 formulas and 7 figures.

ASSOCIATION: none

SUBMITTED: 20Ju164

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SUB CODE: NE EM

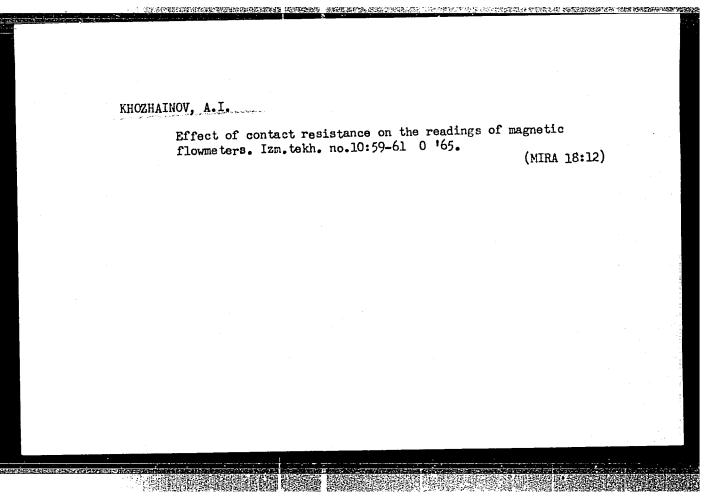
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21713-66 EVT(1)/EVP(m)/EVA(d)/T-2/ETC(m)-6/EVA(1) IJP(c) UR/0057/66/036/001/0147/0150 SOURCE CODE: ACC NR: APG004890 AUTHOR: Khozhainov, A. I. ORG: None 1,4455 1155 TITLE: Turbulent flow of a liquid metal in magnetohydrodynamic channels of circular section SOUNCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 147-150 TOPIC TAGS: magnetohydrodynamics, turbulent flow, mercury, Reynolds number, Hartman number, transition flow, pipe flow ABSTIACT: A semi-empirical formula is derived for the flow resistance in turbulent magnetohydrodynamic flow in a channel of circular section as a function of the Hartman and Reynolds numbers. Four experimental points of J.A. Shercliff (Fluid Mech. 1, 644, 1956) obtained in a 6.35 mm diameter channel at Hartman numbers of 79 and 121 are compared with the theoretical formula, and good agreement is shown. Many experimental data of the author on flow resistance at Hartman numbers from 0 to 60 of mercury in a 1 cm diameter tube of circular section with insulating walls in a transverse magnetic field (no further experimental details are given and no reference is made to their publication elsewhere) together with some data of J. Hartman and F. Lazarus (Kgl. Danske Videnskab. Selskab. Mat.-fys. Medd., 15, 7, 1937) are presented graphically as Card 1/2

and the second second			nd 3 figures.
SUDM DATE: 09Mar65		*	REF: 005
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KHOZHATNOV I.I.; FEDOROV, P.S., professor, zaveduyushchiy; BUDYLIN, V.G., professor, direktor.

Surgical therapy in certain forms of enuresis in the presence of spinae bifidae occultae. Vop.neirokhir. 17 no.3:45-47 My-Je '53. (MLRA 6:8)

1. Fakul'tetskaya khirurgicheskaya klinika Stavropol'skogo meditsinskogo instituta (for Fedorov and Khozhainov). 2. Stavropol'skiy meditsinskiy institut (for Budylin).

(Spine--Abnormities and deformities) (Urine--Incontinence)

。2002年19日的经济中央工程的运动中的经历的企业,最后的企业的,下面通过的企业的企业的企业,但是一个企业的企业。1907年19日的企业,企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。

KHOZHAINOV, I.I.

Treatment of neoplasms of the bladder. Urologiia no.3:10-14 J1-S '55. (MLRA 8:10)

1. Iz kafedry fakul'tetskoy khirurgii (zav.dotsent I.I.Khozhainov)
Stavropol'skogo meditsinskogo instituta (dir. Prof. V.G.Budylin)
(BLADDER, neoplasms
surg. substitute bladder)

KHOZHAINOV, Ivan Ivanovich, for Doctor Medical Sciences on the basis
of dissertation defended 3 Jun 59 in the Council of the Leningrad Pediatric
Medical Institute, entitled: "Surgical Therapy of Now Tissue of the Bladder".

(HNVISSO USSR, 2-61, 20)

KL 24, 1959, 148

101

KHOZHAINOV, I.I. (Stavropol' na Kavkaze, ul.Morozova, d.l, kv.8)

Method of extraperitonization of the bladder in various operations.
Nov.khir.arkh. no.3:46-49 My-Je '59. (MIRA 12:10)

1. Infedra fakul'tetskoy khirurgii (zav. - dotsent I.I.Khozhainov)
Stavropol'skogo meditsinskogo instituta.
(BLADDER--SURGERY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310020-4"

KHOZHAINOV, I.I.; LAPIN, M.D.

Preoperative preparation and treatment of patients with gastric and duodenal peptic ulcer. Sov.med. 23 no.11:119-123 H 159.

(MIRA 13:3)

Is kafedry fakul'tetskoy khirurgii (saveduyushchiy - dotsent
 I.I. Khoshainov) Stavropol'skogo meditsinskogo instituta.
 (PEPTIC ULCER surgery)

KHOZHAINOV, 1.I., dotsent (Stavropol' na Kavkaze, ul.Morozova, d.1,kv.8);

BULYNIN, I.I.; LAPIN, M.D.

Treatment of endarteritis obliterans by subcutaneous administration of novocaine and blood transfusions. Nov. khir. arkh. no.4:79-81 Jl-Ag '60.

1. Kafedra fakul'tetskoy khirurgii (zav. - dotsent I.I.Khoshainov)

Stavropol'skogo meditainskogo instituta.

(ARTELIES_DISEASES)

(INJECTIONS, HYPODERMIC)

(BLOOD_TRANSFUSION)

(NOVOCAINE)

KHOZHAINOV, I.I., prof.

Indications for surgery in neoplasms of the urinary bladder.
Uch. zap. Stavr. gos. med. inat. 12 m241-242 *63.

(MIRA 17:9)

1. Klinika fakul'tetskoy khirurgii (zav. prof. I.I. Khozhainov)

Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

BOGUNOVA, L.S.; VISHNYAKOV, S.G.; KHDZHAINOV, N.P.

Stratigraphy of Carboniferous sediments in the Kursk Magnetic Anomaly. Mat.po geol.i pol.iskop.tsentf.raion.evrop.chasti (MIRA 16:6)

SSSR no.5:75-82 '62. (MIRA 16:6)

(Kursk Magnetic Anomaly—Geology, Stratigraphic)

VISHNYAKOV, S.G., prof., otv. red.; GRISHCHENKO, M.N., prof., red.; DMITRIYEVSKIY, V.S., dots., red.; LARIONOV, A.K., prof., red.; PLAKSENKO, N.A., dots., red.; TOCHILIN, M.S., prof., red.; PREOBRAZHENSKAYA, V.N., dots., red.; KHOZHAINOV, N.P., dots., red.

[Geology and minerals of central Chernozem provinces; transactions] Geologiia i poleznye iskopaemye TSentral'no-Chernozemykh oblastei; trudy. Voronezh, Izd-vo Voronezh-skogo univ., 1964. 334 p. (MIRA 18:2)

1. Mezhoblastnoye geologicheskoye soveshchaniye po geologii i mineral'nym resursam tsentral'nochernozemnykh oblastey, Voronezh, 1962. 2. Voronezhskiy lesotekhnicheskiy institut (for Grishchenko). 3. Voronezhskiy gosudarstvennyy universitet (for Preobrazhenskaya).

KHOZHAINOV, N.P., dotsent; TOCHILIN, M.S., prof.; DMITRIYEVSKIY, V.S., dotsent; CHERNYSHOV, N.I., dotsent; PETRINA, Z.D., predpodavatel'; LAVRENOVA, T.V., assistent; RASKATOV, G.I., dotsent; PREOBRAZHENSKAYA, V.N., dotsent; SIRMAKOVA, G.V., dotsent; Sirmakova, G.V., dotsent; Savva Gavrilovich Vishniakov, 1897-1964; obituary. Lit. i pol. iskop. no.6:179-180 N-D '64. (MIRA 18:3)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310020-4

L 52559-65 ENT(1) Pi-4 LIP(c)

ACCESSION NR: AT5012666

UR/2539/63/600/044/0119/0124

AUTHOR: Khozhainov, Yu. M.: Bundel', A.A.

Bt

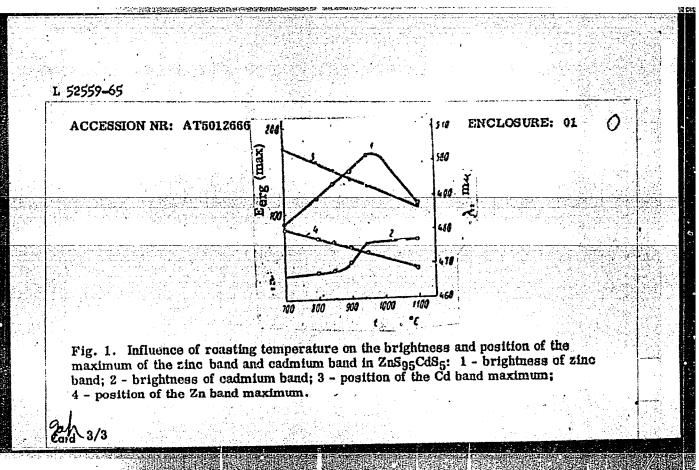
TITLE: Influence of the conditions of preparation on the development of the cadmium band in the spectra of cadmium sulfide luminophors

SOURCE: Moscow. Khimiko-tekhnologicheskiy institut, Trudy, no. 44 1963.
Issledovaniya v oblasti fizicheskoy khimii, analiticheskoy khimii i elektrokhimii
(Research in the field of physical chemistry, analytical chemistry and electrochemistry), 119-124

TOPIC TAGS: spectrophotometry, zinc absorption spectrum, cadmium absorption spectrum, cadmium sulfide analysis, cadmium sulfide luminophor, luminescence spectrum, luminophor roasting

ABSTRACT: The authors present data on the effect of methods of preparation on the development of cadmium and zinc bands in the luminescence spectra of preparations of the composition ZnS₉₅·CdS₅. The effect of roasting temperature on the brightness and position of the maximum of the zinc band and cadmium band was investigated in the range of 700 to 1100C. The results are shown in Fig. 1 of the Enclosure. The introduction of a flux (sodium chloride) and an increase in its concentration (up to 4%) increased

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	that of the Zn band. A che sulfur dioxide formed by 0.05 mm Hg had virtually the brightness of the cadn the initial sulfides from wo of the products. Orig. as	both bands, the bright ange in the pressure of exidation of the sulfide no effect on the bright nium band by almost or which the luminophors of rt. has: 3 figures and	cheskiy institut (Moscow Cl	ire to 0.01- decreased egaseing of t on the spectra
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I. 17156-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AR4049265 S/0081/64/000/015/B015/B015

SOURCE: Ref. zh. Khimiya, Abs. 15B86

AUTHOR: Khozhainov, Yu. M., Bundel', A. A.,

TITLE: A study of the effect of preparative conditions on the growth of the $\frac{\text{Cd}}{2}$ band in spectra of zinc-cadmium -sulfide scintillators

CITED SOURCE: Tr. Mosk. khim.-tekhnol. in-ta im. D.I. Mendeleyeva, vy*p. 44, 1963, 199-224

TOPIC TAGS: zinc cadmium sulfide scintillator, cadmium band intensity, zinc band intensity, scintillator spectrum, flux content, annealing temperature, band luminescence yield

TRANSLATION: The authors demonstrated that two bands, i.e. the zinc band and the band related to introduction of cadmium, are present in the spectra of (Zn_{95}, Cd_5) S-scintillators regardless of manufacturing conditions. It was established that these conditions affect the intensity of both bands in the following manner: an increase in the amount of flux (NaCl) from 0.5 to 4.0% increases the luminescence yield in both

Card 1/2

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ACCESSION NR: AR4049265

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bands, with the Cd band growing brighter at a somewhat faster rate than the Zn band; brightness of the Zn band varies according to the same pattern as for spontaneously activated ZnS when the unnealing temperature is increased from 700 to 1100C, while the brightness of the Cd band increases sharply only between 850 and 950C. Preliminary deoxidation has little effect on the Zn band, but sharply reduces the brightness of the Cd band. Authors' summary

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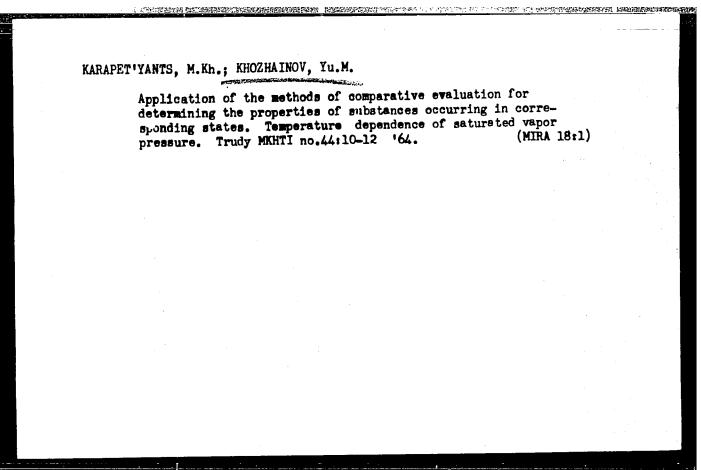
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Card 2/2

L 282h-66 ENT(1)/ENT(m)/T/ENP(t)/ENP(b) LJP(c) JD/GG	
UR/0051/65/018/006/1019/1023 535.37:548.0	
AUTHORS: Khozhainov, Yu. M.; Bundel' A. A. 44, 82	
TITLE: Luminescence of self-activated mixed crystals of the ZnS-CdS series	
 SOURCE: Optika i spektroskopiya, v. 18, no. 6, 1965, 1019-1023	
TOPIC TAGS: zinc compound, optic material, zinc sulfide, cadmium sulfide, luminescent crystal, luminescence spectrum, mixed crystal	
ABSTRACT: The article presents a brief summary of the results of investigations made with ZNS-GdS crystals with CdS content from 0 to 50	
 per cent by weight at -65, +20, and 900, excited by radiation at wave- lengths 365 and 313 nm, and also the phosphorescence spectra one sec- ond after the removal of the excitation. The phosphorus were prepared	
in standard fashion in quartz crucibles. The spectra were measured with a monochromator (UM-2) and a photomultiplier (FEU-19). The phos-	
phorescence was measured with a Wood Phosphoroscope. The results	
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Cent. This	previously sugg tence of a cadm at -65 and +20	at CdS concert.	im. Mendeleyeva no. in the spectrum. The tions up to 20 wt.	18
suppressing the centrations the ously with the creases with includer waveleng experience the coincide for the	e zinc band at a e spectra consideration of competition of nereasing CdS country at a 1950, usual shift with the pure sulfides the lattice. Ori	nger with the incr 20 per cent conter at of the cadmium these bands, the	reasing CdS content it. At larger CdS of band only. Simults width of the bands he bands shift towa pear in addition.	per con- ine-
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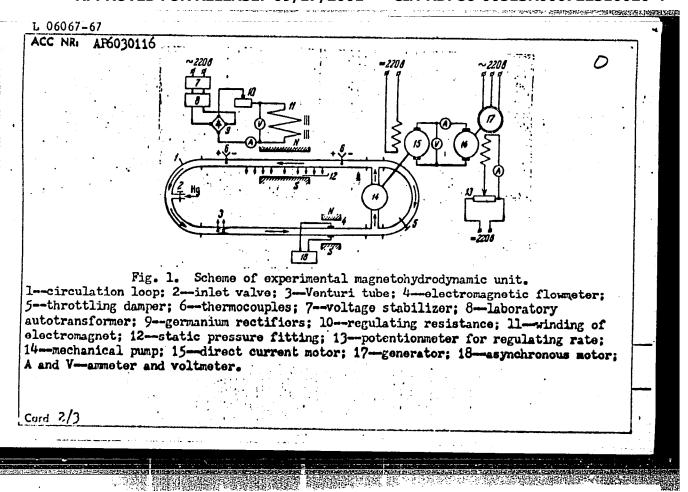


OZHIGOV, Ye.P.; KOREN', L.I.; KIOZHAINOVA, L.V.

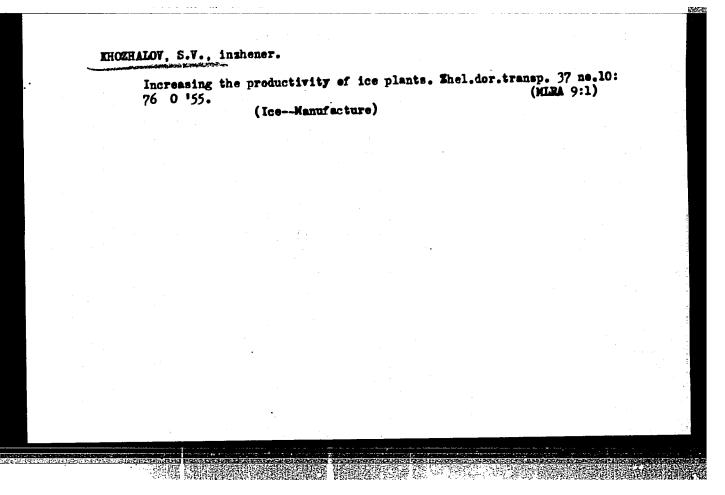
Obtaining long-lasting trace-element fertilizers (frits) from datolite ores. Izv.Sib.otd.AN SSSR no.1:65-71 '61. (MIRA 14:2)

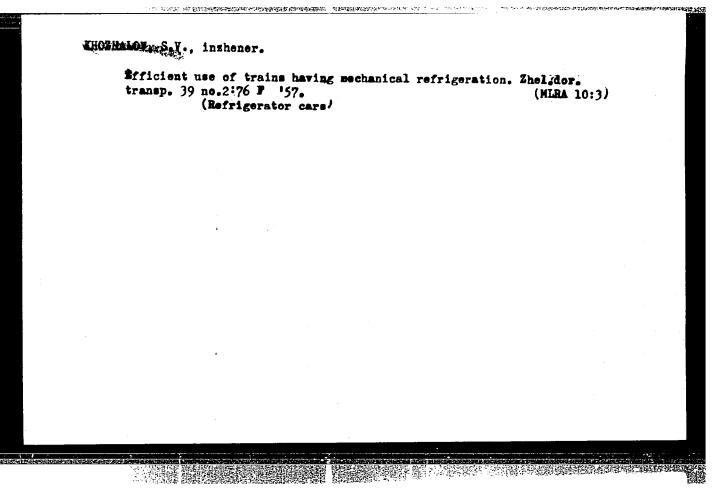
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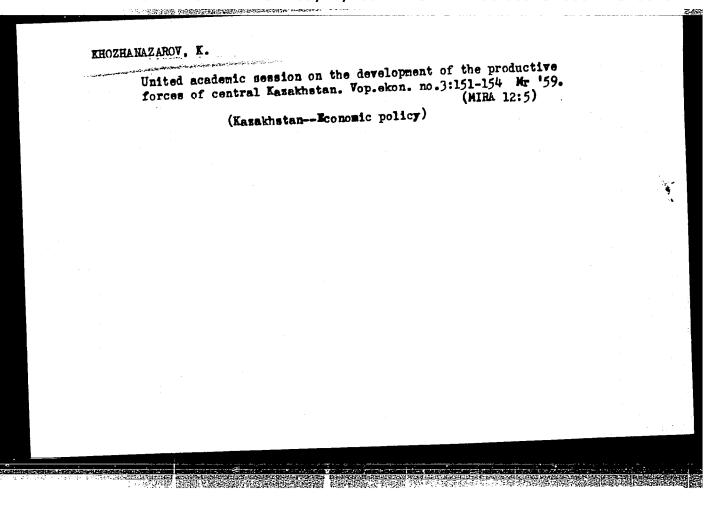
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	ACC NR: AP6030116 SOURCE CODE: UR/0421/66/000/004/0114/0117	
	AUTHOR: Khozhainoy, A. I. (Ioningrad)	
	ORG: none	
	TITIE: Steady state flow of a liquid metal in a magnetodydrodynamic channel of rectangular cross section	
	SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 4, 1966, 114-117	
	TOPIC TAGS: magnetohydrodynamics, fluid flow, mercury	
	ABSTRACT: The article reports the results of an investigation of the effect of a transverse magnetic field on the coefficient of resistance in the flow of mercury in a magnetohydrodynamic channel with a wall ratio of 1:2.5. The experimental magnetohydrodynamic channel was included in a closed circulating system, with distilled mercury. The mercury was set into movement by a mechanical pump, and the flow rate could be regulated within wide limits. The flow rate was recorded with an electromagnetic flowmeter. The pressure in the channel was measured with two-liquid mercury-distilled water manometers. A diagram of the system is shown in Fig. 1.	
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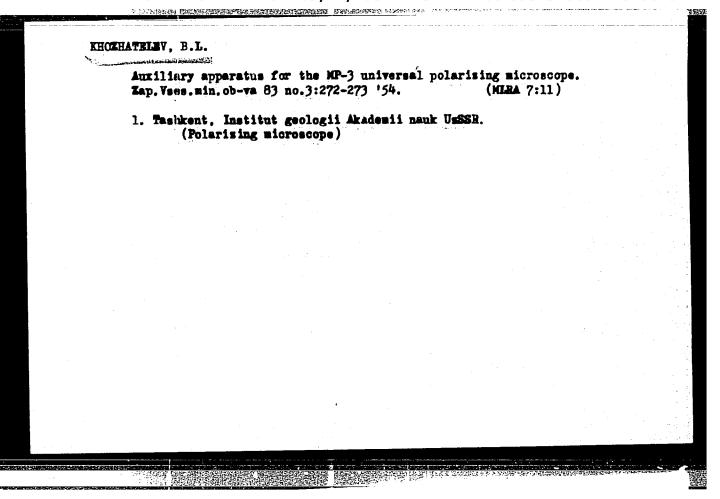


The investigati 20.5, 27.2, 40. 32,000. A figu dependence of 1 laminar to turb $\lambda_* \approx 0.0177 =$	ons were carr 0, and 61.0 i re shows a pl og (100 λ tm)	in a rango Lot of the) on log R.	experiment The resu	al rost lts indicat	ults in the dicate thation is obs	o form o t the tr orved at	f the ansition fr	
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KHCZHATELEV, B.L.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

Abs Jour

: Referat. Zhurnal Khimiya, No 6 1957 18940.

Author

Inst

: B.L. Khozhatelev. : Academy of Sciences of Uzbek SSR.

Title

: To the Lithology of Carbonate and Siliceous Rocks of the Lower Carboniferous in a Section of the South-

ern Slope of the Chatkal skiy Range.

Orig Pub

: Tr. In-ta Geol. AN UZSSR, 1956, vyp 12, 3-31.

Abstract

: The series of carbonate-siliceous sediments is divided into 3 levels in accordance with their composition and structure peculiarities. Dolomites and dolomite containing rocks of an undoubtedly sedimentary origin make up 80% of the total thickness. Limestones are in a subordinate position and, together with silicides, are contained among thick dolomite formations. Homogenous and biogenous silicides stand out among others. The sources of silica have not been determined. It is proposed to distinguish the described series under the name of the "Gavay Strata".

Card 1/1

-53-

AUTHORS:

Badalov, S. T., Golovanov, I. M.,

sov/20-121-5-36/50

Khozhatelev, B. L.

TITLE:

A Monticellite Skarn From Central Asia (Montichellitovyy

skarn iz Sredney Azii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 5,

pp. 897-900 (USSR)

ABSTRACT:

Monticellite, sperrite, and melilite have been known in Central Asia (Grednyaya Aziya) since 1950. The former forms in all known cases both alone and also with the complex of its paragenetic minerals (of the two last-mentioned ones) considerable accumulations of metamorphosed minerals which are bound to the contact zone between eruptive and carbonate rocks. Table 1 shows the physical properties of monticellite from Gavasay (Namangan area, Uzbek SSR = Namanganskaya oblast', Uzbekskaya SSR) and from Almalyk. The latter forms small roundish grains of 0,1 to 1 mm of size, without crystalline shape; the monticellite grains from Gavasay are angular, of irregular shape, up to 0,1 mm of size. Table 2 shows chemical analyses with a conversion to mineral components to-

Card 1/3

A Monticellite Skarn From Central Asia

SOV/20-121-5-36/50

gether with comparing data from other sites. The first author took a radiogram in the Radiometric Latoratory of the Institute of Geology of the AS, Uzbek SSR (Institut geologii Akademii nauk UzbSSR). Table 3 shows the results of his interpretation. They confirmed the composition of the mineral as monticellite from Almalyk. Moreover, sperrite is found in the skarn from Gavasay. It forms crystals of 0,05 to 0,1 mm of size, of irregular shape, which develop at the cost of the monticellite grains. The mineral of the melilite group forms small angular crystals which often have an almost square cross-section. The formation of the monticellite-skarn is genetically bound to the contact-zone between eruptive rocks of middle to basic composition and to dolomites (Almalyk) or dolomitized lime (Gavasay). Here, like elsewhere, the process has taken place under the participation of postmagmatic solutions (Ref 6). It follows from table 4 that CO2-gas escaped during the formation of monticellite skarn and that kieselguhr penetrated into the solution. There are 4 figures, 1 table, and 12 references, 10 of which are Soviet.

Card 2/3

A Monticellite Skarn From Central Asia

SOV/20-121-5-36/50

ASSOCIATION:

Institut geologii Akademii nauk UzSSR (Institute of Geology,

AS Uzbek SSR)

PRESENTED:

April 9, 1958, By D. S. Korzhinskiy, Member, Academy of

Sciences, USSR

SUBMITTED:

April 5, 1958

Card 3/3

30

S/081/62/000/008/024/057 B160/B101

11.1000

AUTHORS:

Kaptel', O. I., Kuznetsov, Ye. L., Khozhaylov, N. K.,

Chernenko, G. V.

TITLE:

Float instrument with ultrasonic positioning of the float,

for measuring the density of a liquid under pressure

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 8, 1962, 148, abstract

8Ye12 (Sb. "Primeneniye ul'traakust. k issled. veshchestva".

no.14. M., 1961, 323 - 336)

TEXT: The calculations for a float-type instrument for determining the density of a liquid under pressure are given and its sensitivity is indicated. Electrical and ultrasonic methods of positioning the float are discussed. The maximum error in density introduced by the electrical

method is $7 \cdot 10^{-5} \text{g/cm}^3$. Calculations are given for an ultrasonic float-positioning method based on the changes in amplitude of a reflected pulse which accompany changes in the orientation of the reflector and crystal planes in relation to each other. The ultrasonic method was checked experimentally. At a frequency of 30 Mc/s the ultrasonic method provides Card 1/2

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S/081/62/000/008/024/057

Float instrument with ultrasonio...

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B160/B101

sufficient accuracy in determining the density of a liquid. The instrument was calibrated with mixtures of alcohol and water. Check measurements show the mean arithmetic error in determining density to be about 0.4%. The results of measuring the densities of petroleum in strata of the Chubovka deposit at pressures of 35-300 atm are given. The petroleum's coefficient of compressibility is 6.10° g/om²atm. [Abstracter's note:

Complete translation.]

CHERCHENKO, G.V.; KAPTEL*, O.I.; KUZNETSOV, Ye.L.; KHOZHAYLOV, N.K.

Measuring the density of formation oils. Trudy Giprovostoknefti (MIRA 14:12)

(Petroleum--Density)

KAPTEL', O.I.; KUZNETSOV, Ye.L.; KHOZHAYLOV, N.K.; CHERCHENKO, G.V.

Float-type device for measuring the density of pressurized liquids using the ultrasonic method for fixing the position of the float.

Prim. ul'traakust. k issl. veshch. no.14:323-336 '61. (MIRA 14:12)

(Ultrasonic waves--Industrial applications)

(Sound--Apparatus)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310020-4

L 3620-66 EWT(1)/FS(v)-3 DD UR/0219/65/060/009/0038/0042 ACCESSION NR: AP5023673 616-036.882-591.543.42+616-036.882-08 39 AUTHOR: Andzhus, R.; Khozich, N. TITLE: The duration limits of reversible clinical death for some hibernating and nonhibernating animals with a body temperature of OC and the possibility of artificially prolonging this state SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 9, 1965, 38-42 TOPIC TAGS: animal physiology, hypercapnia, hypoxia, hypothermia, rat, clinical death, microwave diathermy, suslik, hibernation ABSTRACT: Improved methods of reviving animals cooled to a rectal temperature of OC are demonstrated. In addition, the duration of clinical death during deep hypothermia was investigated, and artificial means of prolonging reversible clinical death were studied. Unamesthetized white rats were cooled in three stages: 1) in a hermetically sealed vessel with a temperature of 0-5C; 2) in an ice bath; and 3) in a propylene glycol or glycerine solution with a temperature below zero. Clinical death sets in at a body temperature of 10C. Revival was begun with simultaneous microwave diathermy (localized in the pericardiac region) and artificial Card 1/3

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ACCESSION NR: AP5023673

respiration (blowing air through the nostrils). When cardiac and respiratory activity resumed (at 15C), animals were placed in a warm bath (40C). Finally, animals were placed in a thermochamber (32C) because their temperature-regulating mechanisms remain disturbed for a few hours or days after revival. Comparative experiments were conducted with nonhibernating animals (rats) and hibernating animals (susliks) to determine the limits of reversible clinical death. Results showed that 100 percent of the rats could be completely revived if the period of clinical death did not exceed 60-70 min. When circulation had been stopped for 2 hr, none of the animals could be completely revived. It was found that suslike can endure a significantly longer period of clinical death: 100 percent of the animals survived 3 hr, and 50 percent survived 5 1/2 hr. It is postulated that only hibernating animals can withstand 3 hr or more of clinical death, with the understanding that they must be artificially revived. While hibernators are in a state of normal activity, they tend to resist clinical death better than nonhibernators, but their resistance during hibernation, as shown in previous experiments by the authors, is less than that of cooled nonhibernators. In an attempt to prolong the duration of reversible clinical death, rats were subjected to 5-7 preliminary coolings to QC with 6-day intervals. About one-third of the group could withstand 2 hr of clinical death. Susliks cooled 4 times with 6-day intervals could survive 7 hr of clinical death, the longest period the authors

Card 2/3

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of rats to hypox mechanism which:	la did not increas increases resista	se resistance to clinical	preliminary conditioning l death. The adaptation unclear and will be the [JS]
(Department of Mocheskiy institut	athematics and Na , Belgrad (Instit	ite of Biology)	e of Physiology & Biologi-
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ANDZHUS, R.; KHOZICH, N.; CHIRKOVICH, T.

Some characteristics of metabolism in cerebral tissues during clinical death in deep hypothermia in some hibernating and non-hibernating animals. Biul. eksp. biol. i med. 60 no. 10:73-76 0 165. (MIRA 19:1)

1. Institut fiziologii yestestvenno-matematicheskogo fakul*teta Belgradskogo universiteta i biologicheskiy institut, Belgrad. Sulmitted November 21, 1964.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310020-4"

L 11628-66 ACC NR. AP6001978 UR/0219/65/060/012/0082/0085 SOURCE CODE: AUTHOR: Andzhus, R.; Khozich, N. ORG: Physiology Institute of the Natural Mathematics Division (Institut fiziologii yestestvennogo-matematicheskogo fakul'teta); Biological Institute, Belgrad (Biologicheskiy institut) Temperature limits for clinical death reanimation in certain hibernating and nonhibernating animals under deep hypothermia SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 12, 1965, 82-85 TOPIC TAGS: anabiosis, experiment animal, temperature adaptation, hypothermia, supercooling ABSTRACT: Experiments were conducted on rats, mice, and susliks (gophers) to determine the lowest body temperatures at which reanimation from clinical death is possible. Deep hypothermia below OC without freezing (crystallization) of organs was induced by immersing clinically dead animals, cooled earlier to OC, into 50% glycerine or propylene glycol solutions and cooling the solutions until body temperatures dropped to -6 or -70. Below this point freezing takes place, and a characteristic sharp rise of rectal temperature is Card 7 /2 UDG: 617-001.18-036.882-08-092.9

Observed as a result of latent heat released by crystallization.
Reanimation techniques used are described in earlier studies. Findings show that the lowest temperature for clinical death is about -7c at which point complete supercooling is achieved. However, temperatures below 0c, especially in the case of susliks, do not prolong the period of reversible clinical death and even shorten it. The longest period of supercooling followed by successful reanimation was 40 minutes in an adult rat. The longest period of clinical death with complete supercooling to -5c was 1 hr for susliks. The authors conclude that reduction of body temperatures below 0c, despite the absence of the irreversible crystallization effect, does not prolong the period of reversible clinical death. Orig. art. has: 4 figures. [06]

SUB CODE: 06/ SUEM DATE: 21Nov6h/ ORIG REF: 002/ OTH REF: 003

BOL'SHINSKIY, M.I., inzh.; KHOZIN, A.V., inzh.; CHERKASOV, V.F., inzh.

Using PML-5 rock loaders during the mining of inclined workings.
Shakht. strol. 7 no.12:25 D'63. (MIRA 17:5)

1. Stroitel'noye upravleniye No.6 tresta Donetskshakhtostroy.

Space is open for all. Av. i kosm. 48 no.11:33-35 N 65. (MIRA 18:10)

KHCZIN, G., kapitan

Universe speaks. Av. i kosm. 48 no.12:20-25 D '65.

(MIRA 18:11)

1. Spetsial'nyy korrespondent zhurnala "Aviatsiya i kosmonavtika".

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310020-4"

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ACCESSION NR AM5001719
                         BOOK EXPLOITATION
                                             TT/MLK/GW
Rebrov, Kikhail Fedorovich; Khozin, Grigoriy Sergeyevich
The moon awaits us (Nas Zhdet Luna), Moscow, Izd-vo "Sovet skaya Rossiya",
   1964, 179 p. illus., biblio., 50,000 copies printed.
TOPIC TAGS: moon, lunar flight, rocket engine
TABLE OF CONTENTS:
The doors to the universe are wide open -- 7
Ch. I. What does space promise us? -- 12
Ch. II. Lunar fairy tale -- 23
Ch. III. When the dream started -- 28
Ch. IV. What we know of the moon -- 37
Ch. V. Interesting hypotheses -- 48
Ch. VI. Dangers lurk everywhere -- 61
Ch. VII. Man or machine? -- 68
Ch. VIII. How to leave Earth -- 84
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Ch. XI. Lunar project Ch. XII. Robots on the Ch. XIII. Han on the Ch. XIV. Space calls Bibliography 179	ie moon 148 Eudux crater	156		
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PETROV, Vitaliy Nikolayevich; KHOZIN, Grigoriy Sergeyevich; FAYNBOYM, I.B., red.

[Radio communication in outer space] Kosmicheskaia radio-sviaz!. Moskva, Izd-vo "Znanie," 1964. 43 p. (Novoe v zhizni, nauke, tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.13)

(MIRA 17:7)

5/13/21/20

22 April 1966

SCAN/66/929

TITLE: Soviet Lunar Probes

SOURCE: Khozin, G. Znaniye-sila (USSR), no. 3, 1966, p. 4 (Summary)

In a brief article reviewing the achievements of Soviet lunar probes designated "Luna-1" (also known as "Mechta"), "Luna-2," "Luna-3," "Zond-3," and "Luna-9," it is stated that in the near future automatic lunar modules with acute "hearing," "sense of touch," and even "taste" and "sense of smell," will explore the moon. After investigating the lunar surface, they will furnish data on the fluctuations of the soil, measure the magnetic field and the degree of rarefaction of the lunar atmosphere. Samples will be taken, and the onboard equipment will perform chemical and mineral analyses.

Card 1/1

 $\frac{\text{II.} 15403-66}{\text{EWT(d)/FSS-2/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d)} } \text{AST/GW}$

ACC NR: AP6000623 | SOURCE CODE: UR/0209/65/000/012/0020/0025

AUTHOR: Khozin, G. (Captain, Special journal correspondent)

33

ORG: None

TITLE: This is the universe speaking: A report from the long-range space communication center (

SOURCE: Aviatsiya i kosmonavtika, no. 12, 1965, 20-25

TOPIC TAGS: space communication, communication system, venus probe/zond 3, venus 2, venus 3

ABSTRACT: This is a general discussion of the Long-Range Space Communication Center. The principal mission of this center is the tracking and guidance of Soviet-launched deep-space probes; particular mention is made of radio command links to the "Zond-3," "Venus-2" and "Venus-3" missions. Certain of the more important personalities (chief engineers, facility and systems designers, etc.) associated with the installation are introduced, and most of the article is given in the form of a dialogue with these personages. Some attention is given to the antenna arrays used at the center, but few technical details are given. It is mentioned that in order to reduce the noise level the reception equipment is Card 1/2

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located in the imme	diate vicinity of the antenna reflector	s. Propogation times
and anticipated del	ays in signal return from various colos:	ial hadias are
discussed bilerly.	No specific mention is made of the cent	er.
SUB CODE: 17, 22 /	SUBM DATE: none	
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	- 장인명화학생활동 (현리회 방환 회교의 10 m)	
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ITLE: To the eternal matelli	lta	
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KHOZINSKAYA, A., kamd.tekhn.nauk

Emulsifiers for acid bituminous emulsions. Zhil.-kom. khoz. 10
no.8:34 '60. (MIRA 13:9)

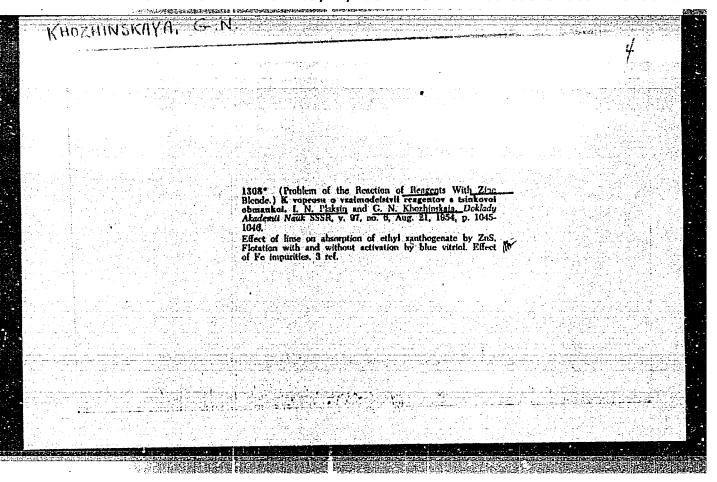
(Emulsions) (Bituminous materials)

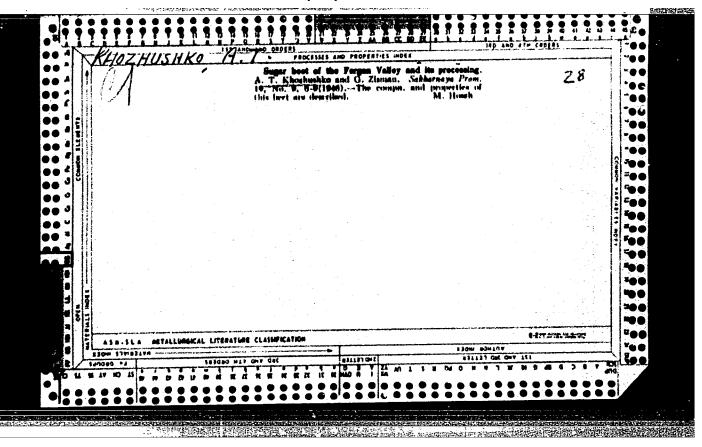
KHOZINSKAYA, A.G., kand.sel'skokhoz.nauk [deceased]

Effect of the transfusion of hemolymph on the transmission of characters and properties in the mulberry silkworm.

Agrobiologiia no. 3:457-459 My-Je '64. (MIRA 17:7)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut shelkovodstva, Tashkent.





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KHOZINSKAYA, O. V.

VINITSKIY, L. YE., Kand. Tekhn Nauk i GUREVICH, L. V., Kand. Tekhn. nauk i <u>KHOZINSKAYA. O. V.</u>, O. St. Nauchn. Sotr. Akademiya kommunal nogo zhosyaystva im. K. D. Pamfilova.

RAZDELITEL'NYYE I NAZEMNYYE ZNAKI IZ TSVETNYKH ISKUSSTVENNYKH MATERIALOV.

page 90

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950,
Moscow, 1951

42418

S/048/62/026/011/010/021 B125/B102

1417/20 146 2 12

Arifov, U. A., Rakhimov, R. R., and Khozinskiy, O. V.

TITLE:

AUTHORS:

Electron emission from metals when bombarded by certain inert

gas ions in the energy range up to 50 kev

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya, fizicheskaya,

v. 26, no. 11, 1962, 1398 - 1403

TEXT: A report is given on the electron emission from hot molybdenum, tungsten, and nickel foils when bombarded with He⁺, Ne⁺ and Ar⁺ ions within

the energy range 1 to 50 kev in a glass vacuum apparatus (2 - 3·10⁻⁷ mm Hg). It consisted of an ion source, a region in which the beam was formed by an electrostatic lens system and a measuring arrangement. The narrow ion beam was accelerated mainly by an electric field. Results: (1) in the energy range studied the coefficient of kinetic electron emission increases linearly with the ion velocity v_o; (2) at given ion velocity v_{Ar} > v_{Ne} > v_{He}.

(3) If the type of the bombarding ion is given, then $\chi_{Mo} > \chi_W > \chi_{Ni}$. The linear dependence $\chi(v_o)$ for Ar and Ne ions corresponds well with that

Card 1/2 11 Per 5/148/02. 1026 | on 100/00

Electron emission from metals when...

5/048/62/026/011/010/021 B125/B102

calculated by E. S. Parilis, L. M. Kishinevskiy (Fizika tverdogo tela, 3, 1219 (1961)) on the basis of the statistical theory of inelastic collisions. Since the experimental and the theoretical data for He+ diverge greatly, statistical studies concerning ions with few electrons must be made more thoroughly. The differences in the x-values obtained for Mo, W, and Ni are due to an effect of the work function on the excited-electron yield. The lack of proportionality between yand the work function of the metal seems to be due to additional factors whose effects are not yet understood. There are 6 figures.

Card 2/2

ARIFOV, U.A.; RAKHIMOV, R.R.; KHOZINSKIY, O.V.

Electron emission induced by the bombardment of metals with certain ions of inert gases in the energy region not exceeding 50 kef. U. Izv. AN SSSR. Ser. fiz. 26 no.11:1398-1403 N 162.

(MIRA 15:12)

(Electrons—Baission) (Ion beams)

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- 1. KHODUKIN, N.I. KHOZINSKIY, V.I. FINOGENOVA, Ye. V. KAMENSHTEYN, I.S.
- 2. USSR (600)
- 3. Hemorrhagic Fever Uzbekistan
- 4. Examination of virus in hemorrhagic fever in Uzbekistan. Vop. kraev. pat. No. 2, 1952.

- 9. Monthly List of Russian Acessions, Library of Congress, February 1953, Unclassified.
- 9. Monthly List of Russian Acessions, Library of Congress, February 1953, Unclassified.

APPROVED FOR DELEASE, 40 (17/200

KHOZINSKIY, V. I.; GULAMOVA, V. P.; KHODUKIN, N. I.

"Experience in making cultures of the measles virus."

Report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists. 1959

KHOZINSKIY, V.I.; KARASEVA, I.A.; SVEZHININA, Yu.A.

Immunological effectiveness of live polyvalent policmyelitis vaccine under conditions of an epidemic outbreak of policmyelitis in Tashkent. Med. zhur. Uzb. no.3:51-56 Mr '61. (MIRA 14:5)

1. Iz Tashkentskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok (direktor - kand.biologicheskikh nauk A.B.Inogamov).

(POLIOMYELITIS)

KHOZINSKIY, V. I.; ZEYBIL, V. B.; TSYPKIN, L.B.; PANTELEYEV, N.S.; MAZUROVA, S.M.

*Utilization of a New Diploid Cell Strain Derived from Human Embryo Lung Tissue for the Cultivation of Enteroviruses and Measles-Virus."

Report presented at the Symposium on Biological Standardization, Opatija, Yugoslavia, 24-26 Sep 63.